

AMENDMENTS TO THE CLAIMS

1 - 2 0 (Withdrawn).

21. (Currently Amended) An image display apparatus comprising:

- (a) a ~~light source~~ diode for emitting beams ~~based on~~
~~superradiation~~;
- (b) an optical switch for inputting substantially linearly polarized beams output from the light source and modulating the substantially linearly polarized beams; and
- (c) a display optical system for displaying beams modulated by the optical switch.

22. (Withdrawn) The image display apparatus of claim 21, wherein the image display apparatus is a projection type image display apparatus and the light source is used for the projection type image display apparatus.

23. (Currently Amended) The image display apparatus of claim 22, further comprising:

- (a) a light source for color image;
- (b) a light source for luminance image;
- (c) an optical switch for color image for creating a color image by using the light source for color image;
- (d) an optical switch for creating a luminance image by using the light source for luminance image; and
- (e) a combining optical system for combining the color image created by the optical switch for color image with the luminance image created by the optical switch for luminance image in order to create a combination image;

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encl wherein the ~~light source~~ diode for emitting beams ~~based on~~
~~superradiation~~ is used for at least one of the light source for
color image and the light source for luminance image.

24 - 25(Withdrawn).

D2 26. (Currently Amended) The luminous element of claim 21, wherein
the ~~light source~~ diode includes a light emitting diode element.

27. (Currently Amended) An image display apparatus comprising:

D3 (a) a ~~light source~~ diode for emitting beams ~~based on~~
~~superradiation~~; and

(b) a display optical system for displaying beams modulated
and output at the light source.

28. (Currently Amended) The image display apparatus of claim 27,
wherein the image display apparatus is a projection type image
display apparatus and the ~~light source~~ diode is used for the
projection type image display apparatus.

D4 29. (Currently Amended) The image display apparatus of claim 28,
further comprising:

- (a) a light source for color image;
- (b) a light source for luminance image;
- (c) an optical switch for color image for creating a color
image by using the light source for color image;
- (d) an optical switch for luminance image for creating a
luminance image by using the light source for luminance image;
and

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encl
(e) a combining optical system for combining the color image created by the optical switch for color image with the luminance image created by the optical switch for luminance image in order to create a combination image;

wherein the ~~light source~~ diode for emitting beams ~~based on superradiation~~ is used for at least one of the light source for color image and the light source for luminance image.

30 - 31 (Withdrawn).

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32. (Currently Amended) The luminous element of claim 27, wherein the ~~light source~~ diode includes a light emitting diode.

33. (Original) An image display apparatus comprising:

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- (a) a light source for color image;
 - (b) a light source for luminance image;
 - (c) an optical switch for color image for creating a color image by using the light source for color image;
 - (d) an optical switch for luminance image for creating a luminance image by using the light source for luminance image;
- and

(e) a combining optical system for combining the color image created by the optical switch for color image with the luminance image created by the optical switch for luminance image in order to create a combination image.

34. (Original) An image display apparatus comprising:

- (a) a luminous device composed of arrayed light sources outputting different wavelength beams in time-sharing.

35. (Original) An image display apparatus comprising:

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- (a) a luminous device composed of arrayed light sources outputting different wavelength beams in time-sharing, and
 - (b) an optical switch for inputting the different wavelength beams output from each of the arrayed light sources of the luminous device, and modulating input different wavelength beams in time-sharing.
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36 - 58 (Withdrawn).

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59. (Previously Amended) The image display apparatus of claim 66, 68 or 69, wherein the optical switch is a digital micro-mirror device composed of arrayed plural mirrors.

60. (Previously Amended) The image display apparatus of claim 66, 67, 68, or 69, wherein the luminous device is composed of plural light sources arrayed on a curved surface.

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61. (Original) The image display apparatus of claim 60, wherein the curved surface has its curvature center on an optical axis of beams input into the optical switch.

62. (Original) The image display apparatus of claim 61, wherein the curved surface is a concave surface.

63. (Original) The image display apparatus of claim 61, wherein the curved surface is a convex surface.

64. (Previously Amended) The image display apparatus of claim 66, 68, or 69, wherein the optical switch is a liquid crystal panel, a reflection type liquid crystal panel.

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65. (Currently Amended) The image display apparatus of claim 66, 68 or 69, wherein the luminous device has plural light sources, an array shape of which ~~is similar to a light utilizing~~ is within a predetermined shape of the optical switch for light.

66. (Currently Amended) An image display apparatus comprising:

(a) a luminous device composed of arrayed plural electro-luminescent elements ~~or arrayed plural light emitting diode elements;~~

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(b) an optical switch for inputting beams output from the luminous device and modulating the beams; and

(c) a display optical system for inputting the beams modulated by the optical switch in order to display an image.

67. (Currently Amended) An image display apparatus comprising:

(a) a luminous device composed of arrayed plural electro-luminescent elements ~~or arrayed plural light emitting diode elements;~~

(b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams; and

(c) a display optical system for inputting the beams output from the parallel-conversion optical system in order to display an image.

68. (Currently Amended) An image display apparatus comprising:

(a) a luminous device composed of arrayed plural electro-luminescent elements ~~or arrayed plural light emitting diode elements~~;

(b) an optical switch for inputting beams output from the luminous device and modulating the beams;

(c) a parallel-conversion optical system for inputting the beams modulated by the optical switch, and converting input beams into substantially parallel beams; and

(d) a display optical system for inputting the beams output from the parallel-conversion optical system in order to display an image.

69. (Currently Amended) An image display apparatus comprising:

(a) a luminous device composed of arrayed plural electro-luminescent elements ~~or arrayed plural light emitting diode elements~~;

(b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams;

(c) an optical switch for inputting beams output from the parallel-conversion optical system and modulating the beams; and

(d) a display optical system for inputting the beams modulated by the optical switch in order to display an image.

70. (Previously Added) The image display apparatus of claim 34 or 35, wherein the luminous device is composed of a plurality of luminous devices, each of the luminous devices being composed of

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a plurality of arrayed light sources outputting lights of nearly the same wavelength.

71. (Previously Added) The image display apparatus of claim 34 or 35, wherein the luminous device is composed of arrayed luminous device groups, each of which is made of light sources of plural kinds outputting lights of different wavelengths.

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72. (Previously Added) The image display apparatus of claim 66, 67, 68 or 69, wherein the luminous device is composed of a plurality of luminous devices, each of the luminous devices being composed of a plurality of arrayed electro-luminescent elements or arrayed light emitting diode elements outputting lights of nearly the same wavelength.

73. (Previously Added) The image display apparatus of claim 66, 67, 68 or 69, wherein the luminous device is composed of arrayed electro-luminescent groups or arrayed light emitting diode groups, each of the groups being made of electro-luminescent elements or light emitting diode elements of plural kinds outputting lights of different wavelengths.

74. (New) An image display apparatus comprising:

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(a) a luminous device composed of arrayed plural light emitting diode elements;

(b) an optical switch for inputting beams output from the luminous device and modulating the beams; and

(c) a display optical system for inputting the beams modulated by the optical switch in order to display an image.

75. (New) An image display apparatus comprising:

(a) a luminous device composed of arrayed plural light emitting diode elements;

(b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams; and

(c) a display optical system for inputting the beams output from the parallel-conversion optical system in order to display an image.

76. (New) An image display apparatus comprising:

(a) a luminous device composed of arrayed plural light emitting diode elements;

(b) an optical switch for inputting beams output from the luminous device and modulating the beams;

(c) a parallel-conversion optical system for inputting the beams modulated by the optical switch, and converting input beams into substantially parallel beams; and

(d) a display optical system for inputting the beams output from the parallel-conversion optical system in order to display an image.

77. (New) An image display apparatus comprising:

(a) a luminous device composed of arrayed plural light emitting diode elements;

(b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams;

- (c) an optical switch for inputting beams output from the parallel-conversion optical system and modulating the beams; and
- (d) a display optical system for inputting the beams modulated by the optical switch in order to display an image.

78. (New) An image display apparatus comprising:

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- (a) a luminous device composed of arrayed plural light emitting diode elements;
 - (b) an optical switch for inputting beams output from the luminous device and modulating the beams; and
 - (c) a display optical system for inputting the beams modulated by the optical switch in order to display an image.

79. (New) An image display apparatus comprising:

- (a) a luminous device composed of arrayed plural light emitting diode elements;
- (b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams; and
- (c) a display optical system for inputting the beams output from the parallel-conversion optical system in order to display an image.

80. (New) An image display apparatus comprising:

- (a) a luminous device composed of arrayed plural light emitting diode elements;

(b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams;

(c) an optical switch for inputting beams output from the parallel-conversion optical system and modulating the beams; and

(d) a display optical system for inputting the beams modulated by the optical switch in order to display an image.

81. (New) An image display apparatus comprising:

(a) a luminous device composed of arrayed plural light emitting diode elements;

(b) a parallel-conversion optical system for inputting beams output from the luminous device, and converting input beams into substantially parallel beams;

(c) an optical switch for inputting beams output from the parallel-conversion optical system and modulating the beams; and

(d) a display optical system for inputting the beams modulated by the optical switch in order to display an image.
